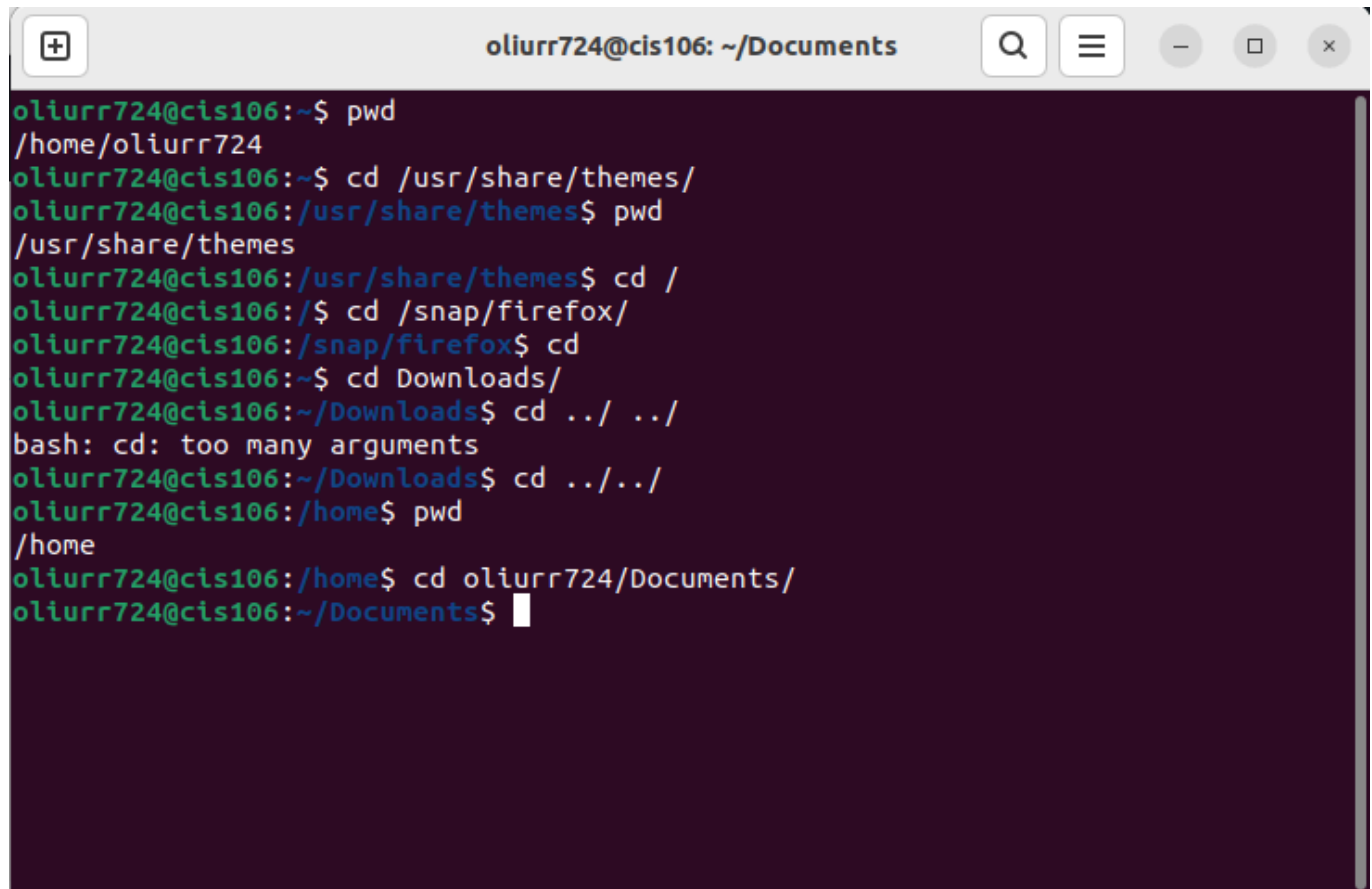


Lab 4

Question 1



```
oliurr724@cis106: ~/Documents
oliurr724@cis106:~$ pwd
/home/oliurr724
oliurr724@cis106:~$ cd /usr/share/themes/
oliurr724@cis106:/usr/share/themes$ pwd
/usr/share/themes
oliurr724@cis106:/usr/share/themes$ cd /
oliurr724@cis106:/$ cd /snap/firefox/
oliurr724@cis106:/snap/firefox$ cd
oliurr724@cis106:~$ cd Downloads/
oliurr724@cis106:~/Downloads$ cd ../ ../
bash: cd: too many arguments
oliurr724@cis106:~/Downloads$ cd ../../
oliurr724@cis106:/home$ pwd
/home
oliurr724@cis106:/home$ cd oliurr724/Documents/
oliurr724@cis106:~/Documents$
```

Question 2

```

1/1 + TiliX: oliurr724@cis106: ~/lab4files

1: oliurr724@cis106: ~/lab4files
oliurr724@cis106:~$ cd /usr/share/
oliurr724@cis106:/usr/share$ ls ~/lab4files/
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png     website.html
oliurr724@cis106:/usr/share$ cd ~/lab4files/
oliurr724@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 oliurr724 oliurr724 20K Feb 22 2022 countries.json
-rw-rw-r-- 1 oliurr724 oliurr724 278K Feb 22 2022 csvfile.csv
-rw-rw-r-- 1 oliurr724 oliurr724 747K Feb 22 2022 document.docx
-rw-rw-r-- 1 oliurr724 oliurr724 726K Feb 22 2022 globe.avi
-rw-rw-r-- 1 oliurr724 oliurr724 76 Feb 22 2022 helloWorld.c
-rw-rw-r-- 1 oliurr724 oliurr724 2.5M Feb 22 2022 Linux.pdf
-rw-rw-r-- 1 oliurr724 oliurr724 8.5K Feb 22 2022 sample.xls
-rw-rw-r-- 1 oliurr724 oliurr724 42K Feb 22 2022 Tux.png
-rw-rw-r-- 1 oliurr724 oliurr724 2.1M Feb 22 2022 Ubuntu.pdf
-rw-rw-r-- 1 oliurr724 oliurr724 135K Feb 22 2022 website.html
oliurr724@cis106:~/lab4files$ ls -lhs
total 6.5M
 20K -rw-rw-r-- 1 oliurr724 oliurr724 20K Feb 22 2022 countries.json
280K -rw-rw-r-- 1 oliurr724 oliurr724 278K Feb 22 2022 csvfile.csv
748K -rw-rw-r-- 1 oliurr724 oliurr724 747K Feb 22 2022 document.docx
728K -rw-rw-r-- 1 oliurr724 oliurr724 726K Feb 22 2022 globe.avi
4.0K -rw-rw-r-- 1 oliurr724 oliurr724 76 Feb 22 2022 helloWorld.c
2.5M -rw-rw-r-- 1 oliurr724 oliurr724 2.5M Feb 22 2022 Linux.pdf
 12K -rw-rw-r-- 1 oliurr724 oliurr724 8.5K Feb 22 2022 sample.xls
 44K -rw-rw-r-- 1 oliurr724 oliurr724 42K Feb 22 2022 Tux.png
2.1M -rw-rw-r-- 1 oliurr724 oliurr724 2.1M Feb 22 2022 Ubuntu.pdf
136K -rw-rw-r-- 1 oliurr724 oliurr724 135K Feb 22 2022 website.html
oliurr724@cis106:~/lab4files$ ls -lhs1
total 6.5M
524457 -rw-rw-r-- 1 oliurr724 oliurr724 2.5M Feb 22 2022 Linux.pdf
524459 -rw-rw-r-- 1 oliurr724 oliurr724 2.1M Feb 22 2022 Ubuntu.pdf
524462 -rw-rw-r-- 1 oliurr724 oliurr724 747K Feb 22 2022 document.docx
524463 -rw-rw-r-- 1 oliurr724 oliurr724 726K Feb 22 2022 globe.avi
524461 -rw-rw-r-- 1 oliurr724 oliurr724 278K Feb 22 2022 csvfile.csv
524466 -rw-rw-r-- 1 oliurr724 oliurr724 135K Feb 22 2022 website.html
524458 -rw-rw-r-- 1 oliurr724 oliurr724 42K Feb 22 2022 Tux.png
524460 -rw-rw-r-- 1 oliurr724 oliurr724 20K Feb 22 2022 countries.json
524465 -rw-rw-r-- 1 oliurr724 oliurr724 8.5K Feb 22 2022 sample.xls
524464 -rw-rw-r-- 1 oliurr724 oliurr724 76 Feb 22 2022 helloWorld.c
oliurr724@cis106:~/lab4files$ ls ~/lab4files
countries.json  document.docx  helloWorld.c  sample.xls  Ubuntu.pdf
csvfile.csv    globe.avi      Linux.pdf     Tux.png     website.html

```

Question 3

```

Open lab4_script.sh ~scripts Save

1 # Creating some variables
2
3 cis="$HOME/cis106"
4
5 downloads="$HOME/Downloads"
6
7 msg1="The current directory is: \t"
8
9 msg2="\nAll files (including hidden files ) in"
10
11
12
13 # Using cd in a script
14 echo "The current user is $USER. It's 'home directory is $HOME"
15 cd $downloads
16 echo -e $msg1
17 pwd
18 cd $cis
19 echo -e $msg1
20 pwd
21
22 #Using ls in a script
23 echo -e "$msg2 /"
24 ls -mA --color=auto /
25
26 echo -e "$msg2 $HOME"
27 ls -mA --color=auto $HOME
28
29 echo -e "$msg2 $downloads"
30 ls -mA --color=auto $downloads
31
32 echo -e "$msg2 $cis"
33 ls -mA --color=auto $cis

```

```

oliurr724@cis106:~/scripts
oliurr724@cis106:~$ cd scripts/
oliurr724@cis106:~/script$ bash lab4_script.sh
The current user is oliurr724. It's 'home directory is /home/oliurr724
The current directory is:
/home/oliurr724/Downloads
The current directory is:
/home/oliurr724/cis106

All files (including hidden files ) in /
bin, boot, cdrom, dev, etc, home, lib, lost+found, media, mnt, opt, proc, root,
run, sbin, snap, srv, swap.img, sys, tmp, usr, var

All files (including hidden files ) in /home/oliurr724
.bash_history, .bash_logout, .bashrc, .cache, cis106, .config, Desktop, .dmrc,
Documents, .dotnet, Downloads, .gitconfig, .gnupg, lab4files, .lessht, .local,
.mozilla, Music, Pictures, .pkg, practics, .profile, Public, scripts, snap,
.ssh, .sudo_as_admin_successful, Templates, .thunderbird, Videos, .vscode,
walpaper.jpg, .Xauthority, .xsession-errors, .xsession-errors.old

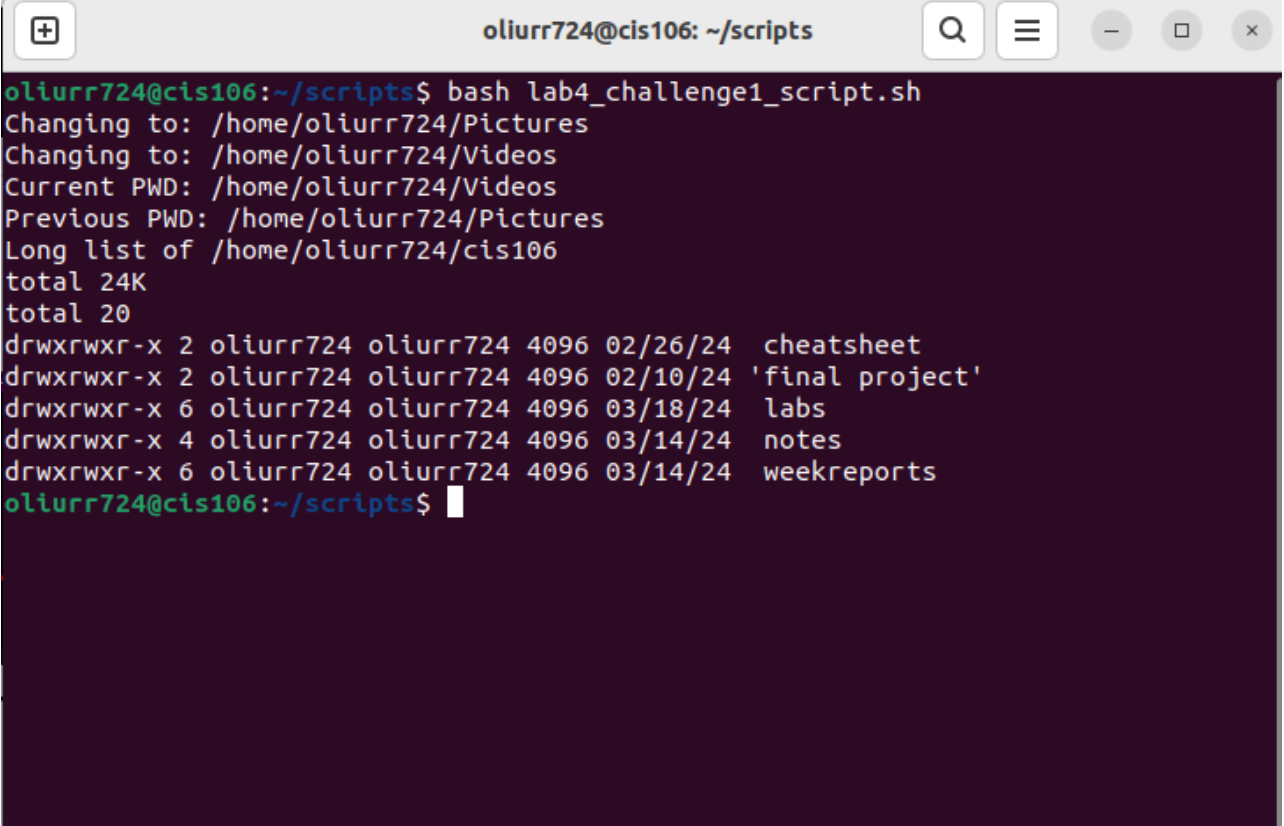
All files (including hidden files ) in /home/oliurr724/Downloads
code 1.86.1-1707296902_arm64.deb, lab2.pdf, lab4files.zip, 'lab4_script(1).sh',
lab4_script.sh, practice4.png

All files (including hidden files ) in /home/oliurr724/cis106

```

Question 4 (challenge question)

- Script Source Code



A terminal window titled "oliurr724@cis106: ~/scripts" with standard window controls. The terminal shows the execution of a script named "lab4_challenge1_script.sh". The script's output includes directory change commands, PWD information, and a long listing of the directory contents.

```
oliurr724@cis106:~/scripts$ bash lab4_challenge1_script.sh
Changing to: /home/oliurr724/Pictures
Changing to: /home/oliurr724/Videos
Current PWD: /home/oliurr724/Videos
Previous PWD: /home/oliurr724/Pictures
Long list of /home/oliurr724/cis106
total 24K
total 20
drwxrwxr-x 2 oliurr724 oliurr724 4096 02/26/24  cheatsheet
drwxrwxr-x 2 oliurr724 oliurr724 4096 02/10/24  'final project'
drwxrwxr-x 6 oliurr724 oliurr724 4096 03/18/24  labs
drwxrwxr-x 4 oliurr724 oliurr724 4096 03/14/24  notes
drwxrwxr-x 6 oliurr724 oliurr724 4096 03/14/24  weekreports
oliurr724@cis106:~/scripts$
```